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A uniform method for implementing multiple tunneling
protocols in a switch or router is disclosed. The method is based
on the realization that although the tunneling protocols are very
different, they do share a similar overall structure which can be
exploited to create a unified method of dealing with multiple
protocols. By using similar data structures to implement multiple
protocols, the invention makes data management and programming
simple and, therefore, cost effective. According to the
invention, all tunneling protocols are abstracted as the mapping
of input L2 or L3 streams with output L2 or L3 streams. Mapping
is provided by a finite set of tunnel interfaces. The tunnel
interfaces map the input streams to output interfaces. As traffic
streams flow through these interfaces, they are processed
according to defined attributes of these interfaces.